

Appl. No. 10/085,398
Amdt. dated February 3, 2004
Reply to Office action of 11/12/2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).
2. (Currently Amended) A mounting according to claim 4 28 wherein axial portion of the housing also projects from the back face of the radial portion.
3. (Original) A mounting according to claim 2 wherein the radial portion of the housing contains a cutout located outwardly from the axial portion, and the service brake is in the cutout.
4. (Original) A mounting according to claim 3 wherein the radial portion of the housing along the front face of the radial portion carries a mechanism for urging the brake shoe against the drum of the brake rotor.
5. (Original) A mounting according to claim 2 wherein the bearing includes inboard and outboard outer raceways carried by the axial portion of the housing, inboard and outboard inner raceways carried by the shaft of the hub, the raceways being inclined with respect to the axis, with the inner raceways being inclined in one direction and the outboard raceways being inclined in the opposite direction, and rolling elements arranged in inboard and outboard rows,

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with the rolling elements of the inboard row being between the inboard raceways and the rolling elements of the outboard row being between the outboard raceways.

6. (Original) A mounting according to claim 5 and further comprising a target wheel carried by the spindle of the hub and a sensor in the housing and presented toward the target wheel for producing a signal that reflects the angular velocity of the target wheel.

7. (Cancelled).

8. (Currently Amended) A mounting according to claim 4 27 wherein the housing is a casting.

9. (Currently Amended) A mounting for a road wheel of an automotive vehicle, said mounting comprising:

a cast housing having a radial portion provided with front and back faces and a sleeve-like axial portion cast integral with the radial portion and projecting from both the front and back faces of the radial portion the radial portion of the housing having a cutout located outwardly from the radial portion and lugs located at the cutout, the radial portion also having a post which projects from its front face;

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a hub having a shaft in the axial portion of the housing and a flange attached to the shaft and located outside the housing where it is spaced from the front face of the radial portion; and

a bearing located between the shaft of the hub and the axial portion of the housing.

10. (Original) A mounting according to claim 9 wherein the bearing includes inboard and outboard outer raceways carried by the axial portion of the housing, inboard and outboard inner raceways carried by the shaft of the hub, the raceways being inclined with respect to the axis, with the inboard raceways being inclined in one direction and the outboard raceways being inclined in the opposite direction, and rolling elements arranged in inboard and outboard rows, with the rolling elements of the inboard row being between the inboard raceways and the rolling elements of the outboard row being between the outboard raceways.

11. (Original) A mounting according to claim 10 and further comprising a target wheel carried by the shaft of the hub and a sensor in the axial portion of the housing and presented toward the target wheel for producing a signal that reflects the angular velocity of the target wheel.

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12. (Canceled).

13. (Currently Amended) A mounting according to claim 9 and further comprising an arcuate brake shoe mounted along the front face of radial portion and radially outwardly from the segment of the axial portion that projects beyond the front face, the brake shoe being positioned by the post on the radial portion of the housing and being capable of moving radially outwardly.

14. (Original) A bearing according to claim 13 and further comprising a brake rotor mounted on the flange of the hub and having a drum located around the arcuate brake shoe.

15. (Original) A bearing according to claim 14 wherein the brake rotor further has a disk which extends radially outwardly from the drum along the front face of the radial portion for the housing.

16. (Currently Amended) A mounting according to claim 15 and further comprising a service brake mounted on in the cutout in the radial portion of the housing and being attached to the lugs on the radial portion, the service brake having pads between which the disk of the brake rotor revolves.

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17. (Withdrawn) A mounting according to claim 9 wherein the housing has arms formed integral with its radial portion so that the housing serves as a steering knuckle.

18. (Withdrawn) A mounting according to claim 9 wherein the housing is attached to an axle tube and the shaft of the hub extends through the tube.

19. (Canceled).

20. (Canceled).

21. (Canceled).

22. (Canceled).

23. (Canceled).

24. (Canceled).

25. (New – former claim 7 in independent condition)

A mounting for the road wheel of an automotive vehicle, said mounting comprising:

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a housing including a radial portion having front and back faces and an axial portion formed integral with the radial portion and projecting beyond the front and back faces of the radial portion;

a hub having a shaft that extends into the axial portion of the housing, the hub also having a flange which projects outwardly from the shaft and is spaced from the front face of the radial portion of the housing;

a bearing located in the axial portion of the housing and around the shaft of the hub so the hub can rotate in the housing about an axis, the bearing including inboard and outboard outer raceways carried by the axial portion of the housing, inboard and outboard inner raceways carried by the shaft of the hub, the raceways being inclined with respect to the axis, with the inner raceways being inclined in one direction and the outboard raceways being inclined in the opposite direction, and rolling elements arranged in inboard and outboard rows, with the rolling elements of the inboard row being between the inboard raceways and the rolling elements of the outboard row being between the outboard raceways;

a target wheel carried by the shaft of the hub between the inner raceways of the bearing;

a sensor located in the housing and presented toward the target wheel for producing a signal that reflects the angular velocity of the target wheel, the sensor being accessible at the back face of the radial portion of the housing;

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a brake rotor attached to the flange of the hub and having a drum which surrounds the axial portion of the housing and a disk which is located along the radial portion;

a service brake mounted on the radial portion of the housing and having a caliper; and

a park brake mounted on the housing within the drum and having a shoe.

26. (New – former claim 12 in independent condition) A mounting for a road wheel of an automotive vehicle, said mounting comprising:

a housing having a radial portion provided with front and back faces and a sleeve-like axial portion cast integral with the radial portion and projecting from both the front and back faces of the radial portion;

a hub having a shaft in the axial portion of the housing and a flange attached to the shaft and located outside the housing where it is spaced from the front face of the radial portion;

a bearing between the shaft of the hub and the axial portion of the housing, the bearing including inboard and outboard outer raceways carried by the axial portion of the housing, inboard and outboard inner raceways carried by the shaft of the hub, the raceways being inclined with respect to the axis, with the inboard raceways being inclined in one direction and the outboard raceways being inclined in the opposite direction, and rolling elements arranged in inboard and outboard rows, with the rolling

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elements of the inboard row being between the inboard raceways and the rolling elements of the outboard row being between the outboard raceways;

a target wheel carried by the shaft of the hub and located between the inner raceways of the bearing;

a sensor in the axial portion of the housing and presented toward the target wheel for producing a signal that reflects the angular velocity of the target wheel; and

a cable extending from the sensor at the back face of the radial portion on the housing.

27. (New) A mounting for a road wheel of an automotive vehicle, said mounting comprising:

a housing having a radial portion provided with front and back faces and a sleeve-like axial portion formed integral with the radial portion and projecting from at least the front face of the radial portion, the radial portion being provided with first elements for securing a service brake to the housing outwardly from axial portion and a second element on its front face for positioning a park brake on the housing opposite the front face and generally around the axial portion;

a hub having a shaft in the axial portion of the housing and a flange attached to the shaft and located outside the housing where it is spaced from the front face of the radial portion; and

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a bearing located between the shaft of the hub and the axial portion of the housing for enabling the hub to rotate with respect to the housing about an axis of rotation.

28. (New) A mounting according to claim 27 and further comprising a service brake secured to the housing at the first elements on the radial portion of the housing.

29. (New) A mounting according to claim 28 and further comprising a park brake located along the front face of the radial portion on the housing and around the axial portion of the housing, the park brake being positioned by the second element on the housing.

30. (New) A mounting according to claim 1 wherein the housing is weldment.